

January 3, 2000

To: Commissioner of Patents and Trademarks  
Washington, D.C. 20231

Fr: George O. Saile, Reg. No. 19,572  
20 McIntosh Drive  
Poughkeepsie, N.Y. 12603



Subject: | Serial No. 09/443,447 11/22/99 |  
| J.W. Chang, M.M. Chen, B. Dieny,  
| Cheng Horng, Kochan Ju, Simon Liao  
| A GMR CONFIGURATION WITH ENHANCED  
| SPIN FILTERING  
| Grp. Art Unit: 1773

1/23/2000  
1773 MAIL ROOM  
RECEIVED

#### INFORMATION DISCLOSURE STATEMENT

Enclosed is Form PTO-1449, Information Disclosure Citation  
In An Application.

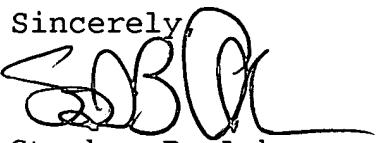
The following Patents and/or Publications are submitted to  
comply with the duty of disclosure under CFR 1.97-1.99 and  
37 CFR 1.56. Copies of each document is included herewith.

U.S. Patent 5,780,176 to Iwasaki et al., Magneto-  
resistance Effect Element", discloses a MR element with a  
exchange coupling film wherein the exchange coupling film is  
made of a FM material that improves the lattice matching.

U.S. Patent 5,843,589 to Hoshiya et al., "Magnetic Layered Material, and Magnetic Sensor and Magnetic Storage/Read System Based Thereon", discloses a MR having a Ta buffer layer.

U.S. Patent 5,766,743 to Fujikata et al., "Magneto-resistance Effect Film, a Method of Manufacturing the Same, and Magnetoresistance Effect Device", discloses a MR with a anti-FM layer on a metal oxide (NiO) layer.

U.S. Patent 5,668,688 to Dykes et al., "Current Perpendicular-to-the-Plane Spin Valve Type Magnetoresistive Transducer", discloses a SV with a TA layer under the Free layer.

Sincerely,  
  
Stephen B. Ackerman,  
Reg. No. 37661